

Scaled data based on original data using  
LM-79-08 Approved Method: Electrical and Photometric Measurements of Solid-State  
Lighting Products

Test Report Prepared for  
Cooper Lighting Solutions  
(formerly Eaton)

Brand: PORTFOLIO

Report Number: P245939

Luminaire Tested: **LD8B50D010 ER8B50940 8LBSW0B**

Issue Date: 03/03/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P245939  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P13958)  
Test Lab: INNOVATION CENTER-P1  
Issue Date: 03/03/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: PORTFOLIO  
Catalog Number: LD8B50D010 ER8B50940 8LBSW0B  
Description: PORTFOLIO 8 INCH SINGLE WALL WASH DISTRIBUTION 60 DEGREE CUTOFF  
RECESSED DOWNLIGHT  
90 CRI 4000 CCT WITH SPECULAR BLACK TRIM  
Light Source: -  
Ballast/Driver: -

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 3747.0 lumens  
Efficiency: N/A  
Efficacy: 70.7 lumens/watt  
Spacing Criteria (0/90/45): 1.2 / 1.23 / 1.15  
Luminous Opening: Circular (Dia: 0.67' x H: 0')  
CIE Type: Direct

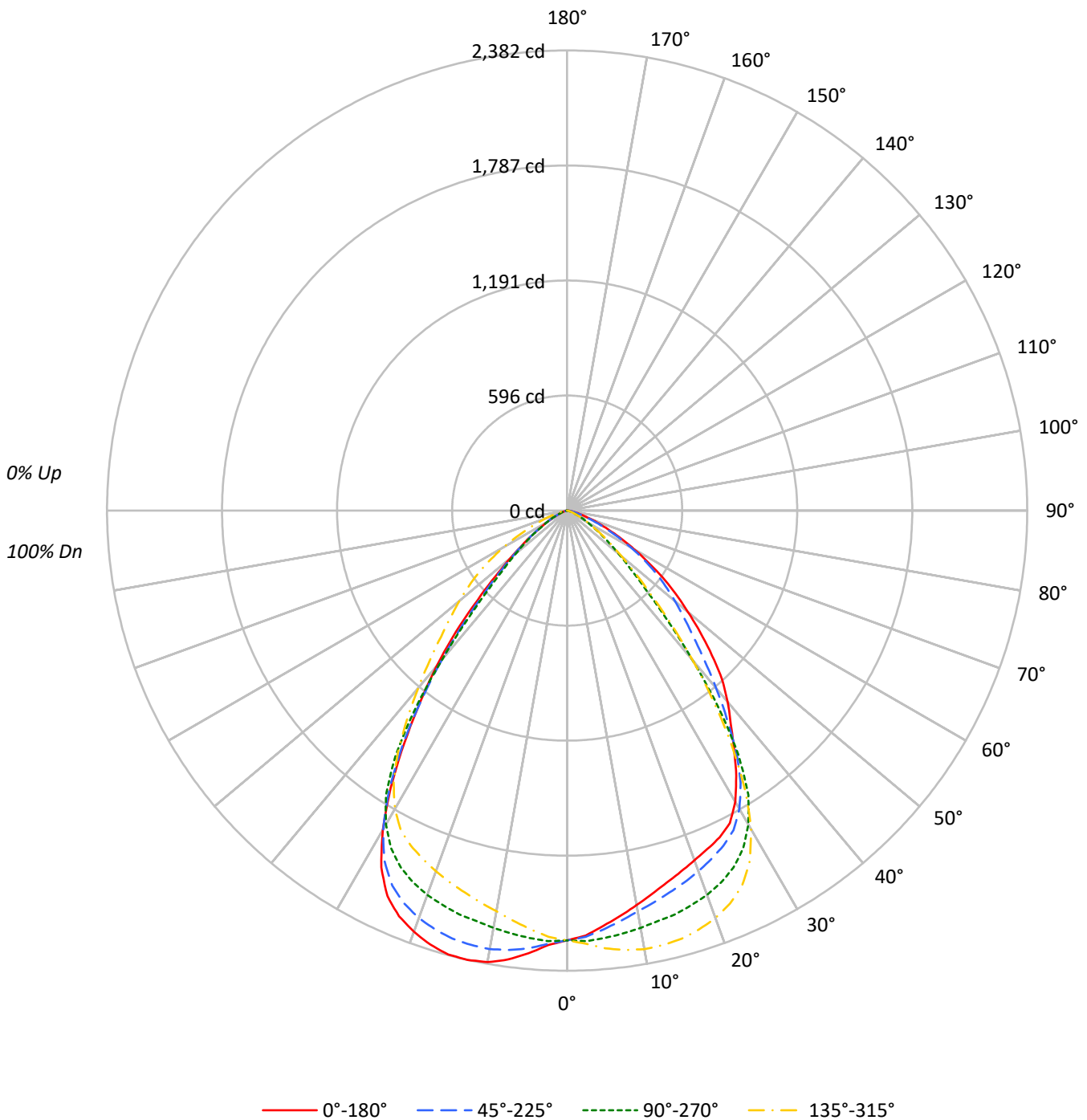
Input Watts (W): 53  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



TEST NUMBER: P245939

CATALOG NUMBER: LD8B50D010 ER8B50940 8LBSW0B

### Luminous Intensity Polar Plot





TEST NUMBER: P245939

CATALOG NUMBER: LD8B50D010 ER8B50940 8LBSW0B

**COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:**

RF	20					20					20					20					20					
RC	80					70					50					30					10					0
RW	70	50	30	10	70	50	30	10	50	30	10	50	30	10	50	30	10	50	30	10	50	30	10	0		
RCR																										
0	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102	100					100			
1	112	109	106	103	109	106	104	101	102	100	98	99	97	95	95	94	92	90					90			
2	105	99	94	89	102	97	92	88	93	90	86	90	87	84	87	85	83	81					81			
3	98	90	83	78	95	88	82	78	85	80	76	83	79	75	80	77	74	72					72			
4	91	82	75	70	89	80	74	69	78	73	68	76	71	67	74	70	67	65					65			
5	85	75	68	62	83	74	67	62	72	66	61	70	65	61	68	64	60	58					58			
6	80	69	61	56	78	68	61	56	66	60	55	65	59	55	63	58	55	53					53			
7	75	63	56	51	73	63	56	51	61	55	50	60	54	50	59	54	50	48					48			
8	70	59	51	46	69	58	51	46	57	50	46	56	50	46	55	49	46	44					44			
9	66	54	47	42	65	54	47	42	53	47	42	52	46	42	51	46	42	40					40			
10	62	51	44	39	61	50	44	39	49	43	39	48	43	39	48	42	39	37					37			

**AVERAGE LUMINANCE (cd/sqm):**

	0°	90°	180°	270°
0°	68595	68595	68595	68595
5°	66771	68755	71210	68755
10°	64925	68667	74313	68667
15°	63628	69074	75938	69074
20°	63196	69470	76135	69470
25°	63526	69328	74911	69328
30°	61956	66791	67991	66791
35°	56670	58266	55280	58266
40°	52028	40532	42323	40532
45°	46230	24726	28608	24726
50°	39131	16517	18340	16517
55°	32407	11268	11914	11268
60°	24718	7499	7567	7499
65°	17512	4677	4283	4677
70°	12631	3129	2840	3129
75°	8018	1561	1299	1561
80°	5594	1154	959	1154
85°	4989	0	389	0



TEST NUMBER: P245939

CATALOG NUMBER: LD8B50D010 ER8B50940 8LBSW0B

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	211.7	5.7
10°-20°	613.1	16.4
20°-30°	928.4	24.8
30°-40°	930.5	24.8
40°-50°	584.3	15.6
50°-60°	311.4	8.3
60°-70°	128.0	3.4
70°-80°	33.8	0.9
80°-90°	5.7	0.2
90°-100°	0.0	0.0
100°-110°	0.0	0.0
110°-120°	0.0	0.0
120°-130°	0.0	0.0
130°-140°	0.0	0.0
140°-150°	0.0	0.0
150°-160°	0.0	0.0
160°-170°	0.0	0.0
170°-180°	0.0	0.0
0°-30°	1753.3	46.8
0°-40°	2683.7	71.6
0°-60°	3579.4	95.5
0°-90°	3747.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3747.0	100.0

**CANDELA DISTRIBUTION:**

	0°	90°	180°	270°	360°	Flux
0°	2224	2224	2224	2224	2224	
5°	2157	2221	2300	2221	2157	203
15°	1993	2164	2379	2164	1993	564
25°	1867	2038	2202	2038	1867	856
35°	1505	1548	1468	1548	1505	943
45°	1060	567	656	567	1060	815
55°	603	210	222	210	603	537
65°	240	64	59	64	240	249
75°	67	13	11	13	67	76
85°	14	0	1	0	14	16
90°	0	0	0	0	0	



TEST NUMBER: P245939

CATALOG NUMBER: LD8B50D010 ER8B50940 8LBSW0B

**CANDELA DISTRIBUTION (FULL):**

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
0°	2224.5	2224.5	2224.5	2224.5	2224.5	2224.5	2224.5	2224.5	2224.5	2224.5	2224.5
2.5°	2201.7	2199.5	2198.4	2200.6	2201.7	2206.0	2204.9	2207.1	2207.1	2208.2	2210.3
5°	2157.1	2156.0	2157.1	2157.1	2161.5	2165.8	2164.7	2168.0	2170.2	2175.6	2177.8
7.5°	2115.9	2115.9	2114.8	2119.1	2121.3	2127.8	2126.7	2132.2	2135.4	2140.8	2148.4
10°	2073.5	2073.5	2074.6	2077.8	2079.0	2088.7	2088.7	2096.3	2100.6	2106.1	2115.9
12.5°	2032.2	2032.2	2038.8	2036.6	2040.9	2048.5	2051.8	2059.4	2065.9	2076.8	2086.6
15°	1993.1	1993.1	1995.3	2000.7	2004.0	2013.8	2019.2	2027.9	2035.5	2046.4	2060.5
17.5°	1959.4	1958.4	1959.4	1966.0	1972.5	1981.2	1985.5	1996.4	2004.0	2018.1	2031.2
20°	1925.8	1928.0	1928.0	1933.4	1937.7	1948.6	1952.9	1964.9	1973.6	1986.6	2001.8
22.5°	1896.5	1895.4	1895.4	1903.0	1906.2	1916.0	1920.3	1931.2	1941.0	1951.8	1966.0
25°	1867.1	1864.9	1869.3	1870.4	1872.5	1883.4	1886.7	1894.3	1904.1	1913.8	1928.0
27.5°	1823.7	1821.5	1822.6	1826.9	1830.2	1838.9	1841.1	1848.7	1856.3	1864.9	1876.9
30°	1740.0	1737.9	1736.8	1744.4	1747.7	1754.2	1757.4	1770.5	1772.6	1782.4	1791.1
32.5°	1629.2	1628.2	1630.4	1636.8	1640.1	1648.8	1653.2	1660.8	1666.2	1671.6	1680.3
35°	1505.4	1503.3	1505.4	1512.0	1512.0	1519.6	1522.8	1526.1	1525.0	1526.1	1523.9
37.5°	1390.3	1389.2	1390.3	1393.5	1390.3	1393.5	1390.3	1383.8	1371.9	1358.8	1345.7
40°	1292.5	1293.6	1287.1	1291.5	1279.5	1277.3	1265.4	1249.1	1225.2	1199.1	1162.2
42.5°	1188.3	1185.0	1180.7	1182.8	1173.1	1165.4	1145.9	1125.3	1094.8	1051.4	1006.9
45°	1060.1	1059.0	1056.8	1055.8	1049.2	1041.6	1025.3	1001.5	967.8	923.3	870.0
47.5°	935.2	931.9	931.9	933.0	925.4	924.3	911.3	890.7	861.3	817.9	762.5
50°	815.7	814.6	816.8	821.1	815.7	813.5	804.9	790.7	764.7	727.8	675.6
52.5°	708.2	707.1	709.3	714.7	712.5	714.7	706.0	695.2	677.8	641.9	596.3
55°	602.8	602.8	602.8	609.3	609.3	609.3	605.0	598.5	582.2	556.1	513.8
57.5°	493.1	494.2	500.7	501.8	500.7	502.9	501.8	495.3	484.5	466.0	433.4
60°	400.8	400.8	404.1	407.3	406.2	407.3	407.3	404.1	393.2	378.0	351.9
62.5°	317.2	320.4	318.2	320.4	324.8	320.4	318.2	316.1	308.5	298.7	277.0
65°	240.0	242.2	242.2	243.3	241.1	242.2	237.9	234.6	230.3	219.4	205.3
67.5°	182.5	182.5	182.5	182.5	181.4	180.3	179.2	176.0	168.4	164.0	148.8
70°	140.1	133.6	133.6	133.6	133.6	134.7	131.4	127.1	124.9	117.3	106.4
72.5°	93.4	95.6	93.4	93.4	91.2	92.3	88.0	85.8	83.6	79.3	72.8
75°	67.3	61.9	64.1	65.2	61.9	64.1	59.7	55.4	55.4	52.1	48.9
77.5°	43.5	42.4	43.5	44.5	43.5	42.4	40.2	38.0	38.0	36.9	33.7
80°	31.5	30.4	30.4	30.4	29.3	30.4	28.3	28.3	26.1	25.0	22.8
82.5°	20.7	20.7	19.5	20.7	19.5	20.7	17.4	17.4	17.4	16.3	14.1
85°	14.1	11.9	11.9	13.1	10.9	13.1	11.9	10.9	9.8	9.8	8.7
87.5°	6.5	7.6	6.5	7.6	6.5	6.5	7.6	6.5	6.5	4.3	4.3
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



TEST NUMBER: P245939

CATALOG NUMBER: LD8B50D010 ER8B50940 8LBSW0B

**CANDELA DISTRIBUTION (continued):**

	55°	60°	65°	70°	75°	80°	85°	90°	95°	100°	105°
0°	2224.5	2224.5	2224.5	2224.5	2224.5	2224.5	2224.5	2224.5	2224.5	2224.5	2224.5
2.5°	2213.6	2214.7	2214.7	2219.1	2221.2	2222.3	2222.3	2231.0	2227.7	2229.9	2232.1
5°	2182.1	2188.6	2190.8	2190.8	2202.7	2207.1	2211.4	2221.2	2222.3	2228.8	2236.4
7.5°	2151.7	2159.3	2163.7	2173.4	2181.0	2188.6	2201.7	2208.2	2214.7	2223.4	2233.1
10°	2122.4	2131.1	2139.8	2147.4	2159.3	2169.1	2177.8	2193.0	2200.6	2212.5	2225.5
12.5°	2094.2	2106.1	2113.7	2126.7	2139.8	2148.4	2161.5	2175.6	2187.5	2199.5	2214.7
15°	2069.2	2083.3	2092.0	2106.1	2120.2	2132.2	2146.3	2163.7	2172.3	2186.5	2200.6
17.5°	2042.0	2057.2	2068.1	2081.1	2098.5	2111.5	2123.5	2140.8	2151.7	2166.9	2183.2
20°	2013.8	2029.0	2042.0	2055.0	2072.4	2085.4	2099.6	2117.0	2128.9	2144.1	2157.1
22.5°	1980.1	1994.2	2008.3	2023.5	2040.9	2051.8	2068.1	2083.3	2096.3	2110.4	2123.5
25°	1936.6	1954.0	1964.9	1979.0	1993.1	2005.0	2022.4	2037.6	2048.5	2061.6	2073.5
27.5°	1885.6	1898.6	1907.3	1919.3	1933.4	1944.2	1957.3	1972.5	1983.4	1995.3	2004.0
30°	1798.7	1810.7	1818.3	1826.9	1841.1	1850.9	1861.7	1875.8	1883.4	1892.1	1899.7
32.5°	1684.6	1694.4	1698.8	1705.3	1715.1	1724.8	1733.5	1745.5	1748.7	1754.2	1754.2
35°	1519.6	1521.7	1520.6	1522.8	1527.2	1532.6	1540.2	1547.8	1552.1	1552.1	1548.9
37.5°	1326.2	1313.2	1299.1	1288.2	1284.9	1282.8	1287.1	1290.4	1294.7	1296.9	1291.5
40°	1125.3	1096.0	1064.4	1036.2	1016.7	1008.0	1004.7	1006.9	1006.9	1014.5	1014.5
42.5°	952.6	906.9	860.3	817.9	789.6	767.9	758.2	758.2	759.2	764.7	767.9
45°	809.2	751.6	697.3	650.6	611.5	583.3	570.2	567.0	565.9	568.1	575.7
47.5°	699.5	639.8	583.3	525.7	484.5	456.2	444.3	439.9	435.5	439.9	441.0
50°	613.7	551.8	492.1	434.5	391.0	366.0	350.8	344.3	343.2	343.2	345.4
52.5°	535.5	477.9	418.2	359.5	313.9	290.0	275.9	272.6	268.3	272.6	272.6
55°	461.6	404.1	345.4	290.0	252.0	227.0	214.0	209.6	207.4	210.7	210.7
57.5°	381.3	332.4	278.1	228.1	190.1	172.7	162.9	157.5	156.4	158.6	156.4
60°	312.8	271.6	224.8	179.2	149.9	131.4	123.8	121.6	119.5	121.6	121.6
62.5°	247.6	212.9	174.9	140.1	115.1	102.1	93.4	93.4	92.3	92.3	93.4
65°	183.6	156.4	129.2	99.9	80.4	70.6	64.1	64.1	63.0	64.1	63.0
67.5°	133.6	115.1	93.4	72.8	57.6	52.1	47.8	44.5	46.7	44.5	43.5
70°	97.8	82.5	67.3	55.4	44.5	39.1	35.9	34.7	32.6	32.6	32.6
72.5°	65.2	55.4	45.6	35.9	29.3	23.9	22.8	20.7	18.5	19.5	21.7
75°	43.5	36.9	32.6	26.1	19.5	19.5	13.1	13.1	10.9	13.1	9.8
77.5°	30.4	25.0	19.5	16.3	13.1	11.9	8.7	8.7	7.6	7.6	7.6
80°	21.7	18.5	14.1	11.9	8.7	8.7	7.6	6.5	5.4	5.4	6.5
82.5°	13.1	9.8	9.8	8.7	5.4	4.3	3.3	4.3	2.2	2.2	2.2
85°	7.6	6.5	5.4	3.3	2.2	2.2	1.1	0.0	1.1	1.1	0.0
87.5°	4.3	2.2	2.2	1.1	0.0	1.1	1.1	0.0	0.0	0.0	2.2
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



TEST NUMBER: P245939

CATALOG NUMBER: LD8B50D010 ER8B50940 8LBSW0B

**CANDELA DISTRIBUTION (continued):**

	110°	115°	120°	125°	130°	135°	140°	145°	150°	155°	160°
0°	2224.5	2224.5	2224.5	2224.5	2224.5	2224.5	2224.5	2224.5	2224.5	2224.5	2224.5
2.5°	2237.5	2236.4	2238.6	2238.6	2245.1	2244.0	2247.3	2247.3	2245.1	2246.2	2250.5
5°	2245.1	2248.4	2254.9	2260.3	2270.1	2274.5	2279.9	2285.3	2286.4	2289.7	2292.9
7.5°	2245.1	2256.0	2263.6	2273.3	2286.4	2294.0	2305.9	2315.7	2320.1	2325.5	2332.0
10°	2240.7	2251.6	2265.7	2276.6	2292.9	2304.9	2316.8	2332.0	2338.5	2347.2	2355.9
12.5°	2232.1	2244.0	2259.2	2273.3	2291.8	2302.7	2317.9	2332.0	2341.8	2353.7	2363.5
15°	2219.1	2233.1	2247.3	2261.4	2280.9	2294.0	2308.1	2324.4	2334.2	2347.2	2355.9
17.5°	2198.4	2213.6	2226.7	2239.7	2258.1	2273.3	2286.4	2301.6	2311.4	2322.3	2334.2
20°	2173.4	2187.5	2201.7	2212.5	2231.0	2244.0	2258.1	2272.3	2279.9	2282.1	2300.5
22.5°	2141.9	2151.7	2162.6	2179.9	2190.8	2202.7	2215.8	2228.8	2236.4	2248.4	2254.9
25°	2089.8	2099.6	2111.5	2119.1	2132.2	2141.9	2155.0	2169.1	2173.4	2182.1	2188.6
27.5°	2017.0	2022.4	2027.9	2034.4	2042.0	2047.4	2055.0	2061.6	2065.9	2070.2	2074.6
30°	1901.9	1901.9	1901.9	1897.5	1900.8	1904.1	1905.1	1904.1	1904.1	1903.0	1903.0
32.5°	1749.8	1741.1	1731.3	1722.7	1719.4	1715.1	1712.9	1709.6	1704.2	1700.9	1702.0
35°	1544.5	1525.0	1513.0	1502.2	1493.5	1487.0	1483.7	1480.5	1479.4	1475.0	1470.7
37.5°	1288.2	1274.1	1265.4	1258.9	1251.3	1244.8	1245.8	1246.9	1250.2	1248.0	1249.1
40°	1016.7	1013.4	1016.7	1009.1	1006.9	1009.1	1014.5	1022.1	1026.4	1030.8	1038.4
42.5°	773.4	778.8	786.4	786.4	789.6	794.0	800.5	812.5	819.0	826.6	835.3
45°	582.2	588.7	598.5	601.7	603.9	609.3	617.0	626.7	631.0	637.6	645.2
47.5°	448.6	452.9	458.3	463.8	469.2	471.4	479.0	479.0	484.5	488.8	490.9
50°	349.7	354.1	358.4	361.7	363.9	367.1	369.3	372.5	373.6	375.8	376.9
52.5°	273.7	279.2	279.2	281.3	284.6	287.8	286.8	287.8	288.9	288.9	292.2
55°	214.0	214.0	217.2	217.2	219.4	218.3	219.4	219.4	219.4	219.4	220.5
57.5°	159.7	160.8	164.0	161.8	160.8	162.9	160.8	162.9	161.8	164.0	160.8
60°	122.7	122.7	123.8	123.8	124.9	124.9	124.9	123.8	123.8	122.7	122.7
62.5°	92.3	93.4	94.5	93.4	93.4	93.4	92.3	92.3	91.2	90.1	90.1
65°	61.9	60.8	63.0	60.8	61.9	61.9	60.8	61.9	58.7	59.7	58.7
67.5°	44.5	43.5	42.4	43.5	42.4	41.3	41.3	42.4	43.5	40.2	40.2
70°	29.3	30.4	29.3	30.4	31.5	31.5	30.4	29.3	30.4	28.3	29.3
72.5°	18.5	18.5	18.5	18.5	18.5	19.5	19.5	19.5	17.4	17.4	16.3
75°	8.7	11.9	9.8	8.7	11.9	11.9	10.9	10.9	9.8	9.8	9.8
77.5°	8.7	6.5	6.5	6.5	6.5	6.5	6.5	6.5	5.4	6.5	5.4
80°	4.3	4.3	4.3	3.3	4.3	4.3	5.4	4.3	4.3	3.3	5.4
82.5°	2.2	2.2	2.2	0.0	1.1	2.2	2.2	1.1	2.2	2.2	1.1
85°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0





TEST NUMBER: P245939

CATALOG NUMBER: LD8B50D010 ER8B50940 8LBSW0B

**CANDELA DISTRIBUTION (continued):**

	165°	170°	175°	180°	185°	190°	195°	200°	205°	210°	215°
0°	2224.5	2224.5	2224.5	2224.5	2224.5	2224.5	2224.5	2224.5	2224.5	2224.5	2224.5
2.5°	2249.5	2248.4	2249.5	2250.5	2249.5	2248.4	2249.5	2250.5	2246.2	2245.1	2247.3
5°	2297.3	2297.3	2299.4	2300.5	2299.4	2297.3	2297.3	2292.9	2289.7	2286.4	2285.3
7.5°	2338.5	2340.7	2342.9	2343.9	2342.9	2340.7	2338.5	2332.0	2325.5	2320.1	2315.7
10°	2363.5	2366.8	2371.1	2373.3	2371.1	2366.8	2363.5	2355.9	2347.2	2338.5	2332.0
12.5°	2374.4	2377.6	2383.1	2382.0	2383.1	2377.6	2374.4	2363.5	2353.7	2341.8	2332.0
15°	2366.8	2371.1	2376.5	2378.7	2376.5	2371.1	2366.8	2355.9	2347.2	2334.2	2324.4
17.5°	2342.9	2349.4	2352.7	2355.9	2352.7	2349.4	2342.9	2334.2	2322.3	2311.4	2301.6
20°	2310.3	2314.7	2319.0	2320.1	2319.0	2314.7	2310.3	2300.5	2282.1	2279.9	2272.3
22.5°	2263.6	2266.9	2276.6	2273.3	2276.6	2266.9	2263.6	2254.9	2248.4	2236.4	2228.8
25°	2196.2	2199.5	2200.6	2201.7	2200.6	2199.5	2196.2	2188.6	2182.1	2173.4	2169.1
27.5°	2080.0	2080.0	2082.2	2083.3	2082.2	2080.0	2080.0	2074.6	2070.2	2065.9	2061.6
30°	1904.1	1904.1	1904.1	1909.5	1904.1	1904.1	1904.1	1903.0	1903.0	1904.1	1904.1
32.5°	1700.9	1698.8	1696.6	1698.8	1696.6	1698.8	1700.9	1702.0	1700.9	1704.2	1709.6
35°	1470.7	1469.6	1472.8	1468.5	1472.8	1469.6	1470.7	1470.7	1475.0	1479.4	1480.5
37.5°	1250.2	1248.0	1252.4	1248.0	1252.4	1248.0	1250.2	1249.1	1248.0	1250.2	1246.9
40°	1040.6	1042.7	1042.7	1051.4	1042.7	1042.7	1040.6	1038.4	1030.8	1026.4	1022.1
42.5°	839.6	846.1	843.9	850.5	843.9	846.1	839.6	835.3	826.6	819.0	812.5
45°	649.5	653.9	653.9	656.0	653.9	653.9	649.5	645.2	637.6	631.0	626.7
47.5°	498.5	498.5	498.5	499.7	498.5	498.5	498.5	490.9	488.8	484.5	479.0
50°	379.1	380.1	381.3	382.3	381.3	380.1	379.1	376.9	375.8	373.6	372.5
52.5°	291.1	292.2	290.0	292.2	290.0	292.2	291.1	292.2	288.9	288.9	287.8
55°	220.5	219.4	220.5	221.6	220.5	219.4	220.5	220.5	219.4	219.4	219.4
57.5°	161.8	159.7	159.7	159.7	159.7	159.7	161.8	160.8	164.0	161.8	162.9
60°	120.6	121.6	121.6	122.7	121.6	121.6	120.6	122.7	122.7	123.8	123.8
62.5°	89.1	92.3	90.1	92.3	90.1	92.3	89.1	90.1	90.1	91.2	92.3
65°	57.6	57.6	57.6	58.7	57.6	57.6	57.6	58.7	59.7	58.7	61.9
67.5°	39.1	40.2	42.4	41.3	42.4	40.2	39.1	40.2	40.2	43.5	42.4
70°	31.5	28.3	28.3	31.5	28.3	28.3	31.5	29.3	28.3	30.4	29.3
72.5°	18.5	16.3	18.5	18.5	18.5	16.3	18.5	16.3	17.4	17.4	19.5
75°	9.8	8.7	7.6	10.9	7.6	8.7	9.8	9.8	9.8	9.8	10.9
77.5°	6.5	5.4	7.6	7.6	7.6	5.4	6.5	5.4	6.5	5.4	6.5
80°	3.3	4.3	3.3	5.4	3.3	4.3	3.3	5.4	3.3	4.3	4.3
82.5°	1.1	2.2	2.2	2.2	2.2	2.2	1.1	1.1	2.2	2.2	1.1
85°	0.0	2.2	1.1	1.1	1.1	2.2	0.0	0.0	0.0	0.0	0.0
87.5°	1.1	0.0	0.0	1.1	0.0	0.0	1.1	0.0	0.0	0.0	0.0
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



TEST NUMBER: P245939

CATALOG NUMBER: LD8B50D010 ER8B50940 8LBSW0B

**CANDELA DISTRIBUTION (continued):**

	220°	225°	230°	235°	240°	245°	250°	255°	260°	265°	270°
0°	2224.5	2224.5	2224.5	2224.5	2224.5	2224.5	2224.5	2224.5	2224.5	2224.5	2224.5
2.5°	2247.3	2244.0	2245.1	2238.6	2238.6	2236.4	2237.5	2232.1	2229.9	2227.7	2231.0
5°	2279.9	2274.5	2270.1	2260.3	2254.9	2248.4	2245.1	2236.4	2228.8	2222.3	2221.2
7.5°	2305.9	2294.0	2286.4	2273.3	2263.6	2256.0	2245.1	2233.1	2223.4	2214.7	2208.2
10°	2316.8	2304.9	2292.9	2276.6	2265.7	2251.6	2240.7	2225.5	2212.5	2200.6	2193.0
12.5°	2317.9	2302.7	2291.8	2273.3	2259.2	2244.0	2232.1	2214.7	2199.5	2187.5	2175.6
15°	2308.1	2294.0	2280.9	2261.4	2247.3	2233.1	2219.1	2200.6	2186.5	2172.3	2163.7
17.5°	2286.4	2273.3	2258.1	2239.7	2226.7	2213.6	2198.4	2183.2	2166.9	2151.7	2140.8
20°	2258.1	2244.0	2231.0	2212.5	2201.7	2187.5	2173.4	2157.1	2144.1	2128.9	2117.0
22.5°	2215.8	2202.7	2190.8	2179.9	2162.6	2151.7	2141.9	2123.5	2110.4	2096.3	2083.3
25°	2155.0	2141.9	2132.2	2119.1	2111.5	2099.6	2089.8	2073.5	2061.6	2048.5	2037.6
27.5°	2055.0	2047.4	2042.0	2034.4	2027.9	2022.4	2017.0	2004.0	1995.3	1983.4	1972.5
30°	1905.1	1904.1	1900.8	1897.5	1901.9	1901.9	1901.9	1899.7	1892.1	1883.4	1875.8
32.5°	1712.9	1715.1	1719.4	1722.7	1731.3	1741.1	1749.8	1754.2	1754.2	1748.7	1745.5
35°	1483.7	1487.0	1493.5	1502.2	1513.0	1525.0	1544.5	1548.9	1552.1	1552.1	1547.8
37.5°	1245.8	1244.8	1251.3	1258.9	1265.4	1274.1	1288.2	1291.5	1296.9	1294.7	1290.4
40°	1014.5	1009.1	1006.9	1009.1	1016.7	1013.4	1016.7	1014.5	1014.5	1006.9	1006.9
42.5°	800.5	794.0	789.6	786.4	786.4	778.8	773.4	767.9	764.7	759.2	758.2
45°	617.0	609.3	603.9	601.7	598.5	588.7	582.2	575.7	568.1	565.9	567.0
47.5°	479.0	471.4	469.2	463.8	458.3	452.9	448.6	441.0	439.9	435.5	439.9
50°	369.3	367.1	363.9	361.7	358.4	354.1	349.7	345.4	343.2	343.2	344.3
52.5°	286.8	287.8	284.6	281.3	279.2	279.2	273.7	272.6	272.6	268.3	272.6
55°	219.4	218.3	219.4	217.2	217.2	214.0	214.0	210.7	210.7	207.4	209.6
57.5°	160.8	162.9	160.8	161.8	164.0	160.8	159.7	156.4	158.6	156.4	157.5
60°	124.9	124.9	124.9	123.8	123.8	122.7	122.7	121.6	121.6	119.5	121.6
62.5°	92.3	93.4	93.4	93.4	94.5	93.4	92.3	93.4	92.3	92.3	93.4
65°	60.8	61.9	61.9	60.8	63.0	60.8	61.9	63.0	64.1	63.0	64.1
67.5°	41.3	41.3	42.4	43.5	42.4	43.5	44.5	43.5	44.5	46.7	44.5
70°	30.4	31.5	31.5	30.4	29.3	30.4	29.3	32.6	32.6	32.6	34.7
72.5°	19.5	19.5	18.5	18.5	18.5	18.5	18.5	21.7	19.5	18.5	20.7
75°	10.9	11.9	11.9	8.7	9.8	11.9	8.7	9.8	13.1	10.9	13.1
77.5°	6.5	6.5	6.5	6.5	6.5	6.5	8.7	7.6	7.6	7.6	8.7
80°	5.4	4.3	4.3	3.3	4.3	4.3	4.3	6.5	5.4	5.4	6.5
82.5°	2.2	2.2	1.1	0.0	2.2	2.2	2.2	2.2	2.2	2.2	4.3
85°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.1	1.1	0.0
87.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	2.2	0.0	0.0	0.0
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



TEST NUMBER: P245939

CATALOG NUMBER: LD8B50D010 ER8B50940 8LBSW0B

**CANDELA DISTRIBUTION (continued):**

	275°	280°	285°	290°	295°	300°	305°	310°	315°	320°	325°
0°	2224.5	2224.5	2224.5	2224.5	2224.5	2224.5	2224.5	2224.5	2224.5	2224.5	2224.5
2.5°	2222.3	2222.3	2221.2	2219.1	2214.7	2214.7	2213.6	2210.3	2208.2	2207.1	2207.1
5°	2211.4	2207.1	2202.7	2190.8	2190.8	2188.6	2182.1	2177.8	2175.6	2170.2	2168.0
7.5°	2201.7	2188.6	2181.0	2173.4	2163.7	2159.3	2151.7	2148.4	2140.8	2135.4	2132.2
10°	2177.8	2169.1	2159.3	2147.4	2139.8	2131.1	2122.4	2115.9	2106.1	2100.6	2096.3
12.5°	2161.5	2148.4	2139.8	2126.7	2113.7	2106.1	2094.2	2086.6	2076.8	2065.9	2059.4
15°	2146.3	2132.2	2120.2	2106.1	2092.0	2083.3	2069.2	2060.5	2046.4	2035.5	2027.9
17.5°	2123.5	2111.5	2098.5	2081.1	2068.1	2057.2	2042.0	2031.2	2018.1	2004.0	1996.4
20°	2099.6	2085.4	2072.4	2055.0	2042.0	2029.0	2013.8	2001.8	1986.6	1973.6	1964.9
22.5°	2068.1	2051.8	2040.9	2023.5	2008.3	1994.2	1980.1	1966.0	1951.8	1941.0	1931.2
25°	2022.4	2005.0	1993.1	1979.0	1964.9	1954.0	1936.6	1928.0	1913.8	1904.1	1894.3
27.5°	1957.3	1944.2	1933.4	1919.3	1907.3	1898.6	1885.6	1876.9	1864.9	1856.3	1848.7
30°	1861.7	1850.9	1841.1	1826.9	1818.3	1810.7	1798.7	1791.1	1782.4	1772.6	1770.5
32.5°	1733.5	1724.8	1715.1	1705.3	1698.8	1694.4	1684.6	1680.3	1671.6	1666.2	1660.8
35°	1540.2	1532.6	1527.2	1522.8	1520.6	1521.7	1519.6	1523.9	1526.1	1525.0	1526.1
37.5°	1287.1	1282.8	1284.9	1288.2	1299.1	1313.2	1326.2	1345.7	1358.8	1371.9	1383.8
40°	1004.7	1008.0	1016.7	1036.2	1064.4	1096.0	1125.3	1162.2	1199.1	1225.2	1249.1
42.5°	758.2	767.9	789.6	817.9	860.3	906.9	952.6	1006.9	1051.4	1094.8	1125.3
45°	570.2	583.3	611.5	650.6	697.3	751.6	809.2	870.0	923.3	967.8	1001.5
47.5°	444.3	456.2	484.5	525.7	583.3	639.8	699.5	762.5	817.9	861.3	890.7
50°	350.8	366.0	391.0	434.5	492.1	551.8	613.7	675.6	727.8	764.7	790.7
52.5°	275.9	290.0	313.9	359.5	418.2	477.9	535.5	596.3	641.9	677.8	695.2
55°	214.0	227.0	252.0	290.0	345.4	404.1	461.6	513.8	556.1	582.2	598.5
57.5°	162.9	172.7	190.1	228.1	278.1	332.4	381.3	433.4	466.0	484.5	495.3
60°	123.8	131.4	149.9	179.2	224.8	271.6	312.8	351.9	378.0	393.2	404.1
62.5°	93.4	102.1	115.1	140.1	174.9	212.9	247.6	277.0	298.7	308.5	316.1
65°	64.1	70.6	80.4	99.9	129.2	156.4	183.6	205.3	219.4	230.3	234.6
67.5°	47.8	52.1	57.6	72.8	93.4	115.1	133.6	148.8	164.0	168.4	176.0
70°	35.9	39.1	44.5	55.4	67.3	82.5	97.8	106.4	117.3	124.9	127.1
72.5°	22.8	23.9	29.3	35.9	45.6	55.4	65.2	72.8	79.3	83.6	85.8
75°	13.1	19.5	19.5	26.1	32.6	36.9	43.5	48.9	52.1	55.4	55.4
77.5°	8.7	11.9	13.1	16.3	19.5	25.0	30.4	33.7	36.9	38.0	38.0
80°	7.6	8.7	8.7	11.9	14.1	18.5	21.7	22.8	25.0	26.1	28.3
82.5°	3.3	4.3	5.4	8.7	9.8	9.8	13.1	14.1	16.3	17.4	17.4
85°	1.1	2.2	2.2	3.3	5.4	6.5	7.6	8.7	9.8	9.8	10.9
87.5°	1.1	1.1	0.0	1.1	2.2	2.2	4.3	4.3	4.3	6.5	6.5
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



TEST NUMBER: P245939

CATALOG NUMBER: LD8B50D010 ER8B50940 8LBSW0B

**CANDELA DISTRIBUTION (continued):**

	330°	335°	340°	345°	350°	355°	360°
0°	2224.5	2224.5	2224.5	2224.5	2224.5	2224.5	2224.5
2.5°	2204.9	2206.0	2201.7	2200.6	2198.4	2199.5	2201.7
5°	2164.7	2165.8	2161.5	2157.1	2157.1	2156.0	2157.1
7.5°	2126.7	2127.8	2121.3	2119.1	2114.8	2115.9	2115.9
10°	2088.7	2088.7	2079.0	2077.8	2074.6	2073.5	2073.5
12.5°	2051.8	2048.5	2040.9	2036.6	2038.8	2032.2	2032.2
15°	2019.2	2013.8	2004.0	2000.7	1995.3	1993.1	1993.1
17.5°	1985.5	1981.2	1972.5	1966.0	1959.4	1958.4	1959.4
20°	1952.9	1948.6	1937.7	1933.4	1928.0	1928.0	1925.8
22.5°	1920.3	1916.0	1906.2	1903.0	1895.4	1895.4	1896.5
25°	1886.7	1883.4	1872.5	1870.4	1869.3	1864.9	1867.1
27.5°	1841.1	1838.9	1830.2	1826.9	1822.6	1821.5	1823.7
30°	1757.4	1754.2	1747.7	1744.4	1736.8	1737.9	1740.0
32.5°	1653.2	1648.8	1640.1	1636.8	1630.4	1628.2	1629.2
35°	1522.8	1519.6	1512.0	1512.0	1505.4	1503.3	1505.4
37.5°	1390.3	1393.5	1390.3	1393.5	1390.3	1389.2	1390.3
40°	1265.4	1277.3	1279.5	1291.5	1287.1	1293.6	1292.5
42.5°	1145.9	1165.4	1173.1	1182.8	1180.7	1185.0	1188.3
45°	1025.3	1041.6	1049.2	1055.8	1056.8	1059.0	1060.1
47.5°	911.3	924.3	925.4	933.0	931.9	931.9	935.2
50°	804.9	813.5	815.7	821.1	816.8	814.6	815.7
52.5°	706.0	714.7	712.5	714.7	709.3	707.1	708.2
55°	605.0	609.3	609.3	609.3	602.8	602.8	602.8
57.5°	501.8	502.9	500.7	501.8	500.7	494.2	493.1
60°	407.3	407.3	406.2	407.3	404.1	400.8	400.8
62.5°	318.2	320.4	324.8	320.4	318.2	320.4	317.2
65°	237.9	242.2	241.1	243.3	242.2	242.2	240.0
67.5°	179.2	180.3	181.4	182.5	182.5	182.5	182.5
70°	131.4	134.7	133.6	133.6	133.6	133.6	140.1
72.5°	88.0	92.3	91.2	93.4	93.4	95.6	93.4
75°	59.7	64.1	61.9	65.2	64.1	61.9	67.3
77.5°	40.2	42.4	43.5	44.5	43.5	42.4	43.5
80°	28.3	30.4	29.3	30.4	30.4	30.4	31.5
82.5°	17.4	20.7	19.5	20.7	19.5	20.7	20.7
85°	11.9	13.1	10.9	13.1	11.9	11.9	14.1
87.5°	7.6	6.5	6.5	7.6	6.5	7.6	6.5
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)